

EDITED KSAPC LISTING

CLASSIFICATION: **SENIOR HAZARDOUS MATERIALS SPECIALIST (TECH)**

NOTE: Each position within this classification may perform some or all of these KSAPCs.

KSAPC Statements	
Knowledge:	
K1.	Comprehensive knowledge of the principles of scientific research to effectively remediate hazards and comply with applicable departmental procedures, local, state and federal laws and regulations.
K2.	Advanced knowledge of chemical, biological, physical, and environmental science to comply with environmental regulations.
K3.	Comprehensive knowledge of chemical and physical characteristics of hazardous materials and their effect on human health and the environment as they relate to the chemicals being stored and used to ensure a safe working environment.
K4.	Comprehensive knowledge of chemical reactivity to ensure the health and safety of staff and inmates, the protection of the environment, and property.
K5.	Comprehensive knowledge of hazardous materials and wastes and their impacts on life, environment, and property to protect public health and the environment.
K6.	Comprehensive knowledge of the principles and procedures of hazardous materials management and resource recovery, including toxicology, hydrology, and geology to develop effective prevention and mitigation measures.
K7.	Comprehensive knowledge of water, soil and air quality management, and environmental planning to ensure compliance with regulatory guidelines.
K8.	Comprehensive knowledge of investigatory methods to determine sources of hazards/contamination, and identify the responsible party for cost recovery and remediation purposes.
K9.	Advanced knowledge of hazardous materials management activities and programs in the public and private sectors to ensure compliance with guidelines and regulatory requirements.
K10.	Comprehensive knowledge of research and literature on the health effects of hazardous substances used within the California Department of Corrections and Rehabilitation (CDCR) to protect human health and safety, and the environment.

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KSAPC Statements	
Knowledge:	
K11	Advanced knowledge of local, state, and federal laws and regulations, legislative and regulatory processes, and programs related to hazardous materials to ensure compliance with all applicable laws and regulations.
K12	Advanced knowledge of methods of transport, storage, recovery, treatment, disposal, and use of hazardous materials/wastes within the CDCR to ensure regulatory compliance.
K13	Advanced knowledge of the environmental permitting process including local, state and federal requirements to ensure compliance with environmental regulations.
K14	Comprehensive knowledge of hazardous materials/wastes management concepts within the institution to maintain regulatory compliance.
K15	Comprehensive knowledge of the principles involved in locating and designing proposed hazardous waste facilities for storage of hazardous substances to protect life, health, and environment.
K16	Comprehensive knowledge of major hazardous substances used at CDCR institutions/facilities including trends in usage patterns to comply with the Illness Injury Prevention Program (IIPP).
K17	Comprehensive knowledge of the systemic effect of hazardous material on human health within CDCR to prevent injury and provide appropriate first aid care if needed.
K18	Advanced knowledge of CDCR's hazardous waste stream characteristics including current and future hazardous waste management options to properly manage hazardous waste streams.
K19	Comprehensive understanding of the programs and mechanisms for managing hazardous waste utilizing new and innovative technologies to comply with emerging regulatory requirements.
K20	Comprehensive knowledge of toxic properties of chemicals to determine levels of Personal Protective Equipment (PPE) and to protect life, health, and environment.
K21	Comprehensive knowledge of strategies for risk management to prevent institution liability and legal implication.

KSAPCs highlighted in bold text are not currently on the SPB classification specification

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KSAPC Statements	
Knowledge:	
K22	Comprehensive knowledge of the National Incident Management System (NIMS)/Standardized Emergency Management System (SEMS) as it relates to hazardous materials emergency response to comply with Federal Emergency Management Agency (FEMA) standards.
K23	Basic knowledge of CDCR policies regarding interacting with media as directed by the Public Information Officer (PIO) to maintain security of information.
K24	Basic knowledge of the storm water management plan to prevent contaminants from entering the effluent storm water.

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KSAPC Statements	
Skill:	
S1.	Skill to perform physical labor (e.g., lifting/moving equipment, climbing hills/ladders, etc.) in order to perform the required tasks of the job.
S2.	Skill to enter and work in confined spaces while wearing Personal Protective Equipment (PPE) to perform the required tasks of the job.

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KSAPC Statements	
Ability:	
A1.	Ability to collect environmental data for the purpose of classification and processing.
A2.	Ability to analyze and evaluate data to reach sound conclusions.
A3.	Ability to apply scientific methods and principles in order to resolve environmental issues and concerns.
A4.	Ability to analyze situations and take appropriate actions to protect life, health, and environment.
A5.	Ability to establish and maintain cooperative relations with local, state and federal governments, and all persons contacted to establish professional workplace relationships.
A6.	Ability to prepare clear, complete, and technically accurate reports for informative purposes and/or to provide technical guidance towards effective solutions.
A7.	Ability to communicate effectively in order to professionally convey information to all interested individuals/organizations.
A8.	Ability to plan, organize, and carry out hazardous materials studies or projects to ensure completion of job tasks.
A9.	Ability to coordinate the work of others in order to effectively complete projects.
A10.	Ability to develop and prepare recommendations based on scientific findings and make oral presentations to disseminate information.
A11.	Ability to be objective and flexible in completing job tasks in order to maintain professional relationships.
A12.	Ability to meet critical deadlines to ensure completion of job tasks and avoid fines and legal penalties.
A13.	Ability to apply or modify complex scientific methods and principles in order to resolve environmental issues and concerns.

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KSAPC Statements	
Ability:	
A14.	Ability to understand principles of risk assessment and risk management to avoid penalties and legal implications.
A15.	Ability to work with CDCR staff and outside government agency personnel on complex and evolving environmental issues to achieve program goals and objectives.
A16.	Ability to read and understand technical reports on emerging public health issues related to the use of hazardous substances to keep informed of the latest health concerns and innovative technology.
A17.	Ability to assess the impact of proposed legislation and new statutes to develop policies and procedures.
A18.	Ability to organize materials for public presentation and dissemination to keep stakeholders informed.
A19.	Ability to anticipate and respond to public concerns with tact and sensitivity to maintain a good community rapport.
A20.	Ability to prepare project plans and endangerment assessments as they relate to hazardous materials cleanup/site mitigation to protect public health and meet regulatory compliance.
A21.	Ability to apply complex scientific findings for environmental management issues to achieve desired objectives.
A22.	Ability to develop and/or apply techniques for gathering, classifying, and interpreting a large quantity of detailed data to enhance environmental solutions.
A23.	Ability to communicate effectively the results and implications of studies to regulatory agencies, management, staff, and inmates/wards to professionally convey information.
A24.	Ability to do specialized and difficult research and analytical work as it relates to environmental issues to achieve scientific results based on multifaceted scenarios.
A25.	Ability to anticipate complex and controversial new issues in environmental management and recommend development of programs to proactively address such issues.

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KSAPC Statements	
Ability:	
A26.	Ability to act independently, promptly, and safely to expeditiously complete the task at hand.
A27.	Ability to provide scientific findings on highly controversial and complex projects concerning environmental health and the protection of the environment to reach sound solutions for ongoing sensitive issues.
A28.	Ability to participate, coordinate and/or chair task forces and meetings related to environmental issues to enhance coordination and collaboration among various stakeholders.
A29.	Ability to develop new hazardous material control methodologies and/or procedures that can be implemented by institutions/facilities to promote uniformity and consistency in performing project tasks.
A30.	Ability to coordinate and direct the work of staff and others to mitigate the effects of an unplanned release of hazardous waste to re-establish a safe working environment.
A31.	Ability to make oral presentations in an in-service training setting to keep staff and management informed of various environmental health and safety issues.
A32.	Ability to operate a motor vehicle with a valid Class C driver's license with a Hazardous Materials Endorsement.
A33.	Ability to understand principles of hazard recognition and assessment to protect the public and environment and to ensure compliance with hazardous materials and waste management.
A34.	Ability to understand principles of risk assessment to protect the public and environment and to ensure compliance with hazardous materials and waste regulations.